

12.1.3 Preparation for Toyota BEV's tests on the 2WD/4WD dynamo with customer's vehicle.

						2WD dynamo				4WD dynamo			
						for driving		for road load investigation and setting		for driving		for road load investigation and setting	
Model name	Drive	System start by	Engine start at cold start	Engine start at hot start	Indication when system ready	(see *1) How to set "Special Mode"	Indication on instrumental panel	(see *2) How to set "Special Mode"	Indication on instrumental panel	(see *1) How to set "Special Mode"	Indication on instrumental panel	(see *2) How to set "Special Mode"	Indication on instrumental panel
bZ4X	FF	Power Button	N/A	N/A	READY	Type a	CDY-2	Type A	CDY-2E	Type a	CDY-2	Type A	CDY-2E
bZ4X AWD	4WD	Power Button	N/A	N/A	READY	Type a	CDY-2	Type A	CDY-2E	Type b	CDY-4	Type B	CDY-4E
SOLTERRA AWD	4WD	Power Button	N/A	N/A	READY	Type a	CDY-2	Type A	CDY-2E	Type b	CDY-4	Type B	CDY-4E
RZ 450e AWD	4WD	Power Button	N/A	N/A	READY	Type a	Cdy-2	Type A	Cdy-2E	Type b	Cdy-4	Type B	CDY-4E

*1) How to set "Special Mode" before drive on the dynamo.

Type a

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 3
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 3
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 3
- 11 Confirm that indication on instrumental panel becomes same as above list.
- 12 Press "POWER" button / Turn "Key"
- 13 Confirm the indication as "READY"

Type b

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 3
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 3
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 5
- 11 Confirm that indication on instrumental panel becomes same as above list.
- 12 Press "POWER" button / Turn "Key"
- 13 Confirm the indication as "READY"

Type c

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 3
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 3
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 3
- 11 After approximately 6 seconds, confirm indication on instrumental panel becomes same as above list.
Note: Instrumental panel changes cyclically before displaying.
- 12 Press "POWER" button / Turn "Key"
- 13 Confirm the indication as "READY"

Type d

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 5
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 5
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 5
- 11 After approximately 6 seconds, confirm indication on instrumental panel becomes same as above list.
Note: Instrumental panel changes cyclically before displaying.
- 12 Press "POWER" button / Turn "Key"
- 13 Confirm the indication as "READY"

*2) How to set "Special Mode" before road load investigation and setting.

Type A

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 2
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 2
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 2
- 11 Confirm that indication on instrumental panel becomes same as above list.
- 12 Press "POWER" button / Turn "KEY"
- 13 Confirm the indication as "READY"

Type B

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 4
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 4
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 4
- 11 Confirm that indication on instrumental panel becomes same as above list.
- 12 Press "POWER" button / Turn "KEY"
- 13 Confirm the indication as "READY"

Type C

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 2
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 2
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 2
- 11 After approximately 6 seconds, confirm indication on instrumental panel becomes same as above list.
Note: Instrumental panel changes cyclically before displaying.
- 12 Press "POWER" button / Turn "KEY"
- 13 Confirm the indication as "READY"

Type D

- 1 Shift to "P" range
- 2 Turn IG off
- 3 Release brake pedal
- 4 Turn IG on
- 5 Push and hold brake pedal
- 6 Depress accel pedal deeply x 4
- 7 Shift to "N" range
- 8 Depress accel pedal deeply x 4
- 9 Shift to "P" range
- 10 Depress accel pedal deeply x 4
- 11 After approximately 6 seconds, confirm indication on instrumental panel becomes same as above list.
Note: Instrumental panel changes cyclically before displaying.
- 12 Press "POWER" button / Turn "KEY"
- 13 Confirm the indication as "READY"

12.1.4 Disabled controls/features list

Controls/Features(If applicable)	Purpose	Disabled/Altered
VSC(Vehicle Stability Control)	For stable vehicle running on CDY	Disabled
TRC(Traction Control)	For stable vehicle running on CDY	Disabled
4WD Disconnect Control	For stable vehicle running on 2WD CDY.	Altered on 2WD CDY. 1.Rear driving power is cut. 2.The request of engine torque down is forbidden.
	For stable 4WD disconnect system working on 4WD CDY.	Altered on 4WD CDY The signal of slip and the slope judgment is ignored so that a test vehicle keeps disconnect state.
PDRM/PTM Control (Powertrain Driver Model/Power Train Manager Control)	For stable vehicle running on CDY	Altered. (e.g.) ABS failure signal is masked to prevent from being shifted to "fail-safe" mode.
Battery Charging Control	For stable Charging Control system working on CDY	Altered. 1. The condition to start refresh charging is invalidated. 2. Set the appropriate SOC value before the beginning of test.
PCS(Pre Collision System)	For stable vehicle running on CDY	Disabled
ICS(Intelligent Clearance Sonar)	For stable vehicle running on CDY	Disabled
AT(Automatic Transmission)	For stable AT working on CDY	Altered. ABS failure signal is masked to prevent from being shifted to "fail-safe" mode.
CVT(Continuously Variable Transmission)	For stable CVT working on CDY	Altered. (e.g.) ABS failure signal is masked to prevent from being shifted to "fail-safe" mode.
TVD(Torque Vectoring Differential)	For stable vehicle running on CDY	Disabled
S&S(Start & Stop)	For stable S&S system working on CDY	Altered. 1.The judgement criteria to detect road surface and gradient is altered. 2.The failure signal of wheel speed sensor is masked. 3.The wheel speed signal is substituted for max wheel speed among all usual wheels that normally operate. 4.The information related to ABS operation is masked. 5.(For 1M-HV) The information related to engine hood is masked. 6. The signal of center differential lock system is masked.
Regeneration Brake Control	For stable regeneration system working on CDY	Altered the condition for recovery of regeneration function to make regeneration function stably work on 2WD chassis dynamometer.
Driver's Mind D range Control	For appropriately working D range control	Disabled.
Hybrid 4WD Control	For stable Hybrid 4WD system on CDY(for 2WD)	Altered. 1. Driving force to rear wheels is not supplied. 2. Regeneration of rear wheels is disabled.
Slip Suppression Control for Hybrid Vehicle	For stable Hybrid system working	Disabled
Vehicle Height Control System	For stable vehicle running on CDY and stable S&S s	Altered. 1. This system is deactivated 2. S&S system ignores activation signal of this system
Rr Shutdown System	For appropriately working Rr shutdown system	Altered. ABS/VSC/TRC failure signal is masked to prevent from being shifted to "fail-safe" mode.
Automatic P range shifting	For stable vehicle running on CDY	Disabled
Ambient Temperature Sensor	For appropriately working ambient temperature sensor	Altered. The actual measured value is used.

*CDY: Chassis Dynamometer.